

From boatanchors@theporch.com Mon Mar 11 00:29:36 1996  
From: Sheldon Wheaton <swheaton@sky.net>  
Subject: '30s public service HF radios  
Message-ID: <Pine.SOL.3.91.960310213429.10090B-100000@solar.sky.net>

On Sat, 9 Mar 1996 USSAILIS@forum.phast.umass.edu wrote:

> Who, then, made the public service band radios of the '30s? I think they  
> operated between 2 and 3 MHz.

I have a Philco model 821P ("P" for "Police"?) car radio that I received some years ago. I received it from Ralph, W0KUZ (SK), who told me that he did radio repair work for the police department in the 30's, and this was one of the old mobile rigs from that time. It is a RECEIVER ONLY, which would certainly suggest a different type of radio operating scenario than that used today.

The Rider's spec sheet dated July 1937 (Pages 8-111 & 8-112 Philco), indicates that the set could be tuned to any frequency from 1550 kc to 1600 kc, with the use of one of 10 available Philco crystals. The IF can be tuned to any frequency between 242 kc and 278 kc.

As for base units, I have a National RCL, which is essentially an NC-100, that had a Missouri Highway Patrol decal on the back of the chassis. A fellow BA list member who presently works for the Missouri Highway Patrol communications department, has told me that these sets were used to handle CW traffic between base stations for many years.

73, Sheldon KC0CW swheaton@sky.net

From boatanchors@theporch.com Mon Mar 11 17:41:34 1996  
From: aa4rm%amos.UUCP@mathcs.emory.edu (Marty)  
Subject: Re: '30s public service HF radios  
Message-ID: <9603111554.AA01188@amos.YP.mystnite>

Remember "Calling all Cars?" That'd go out on 1800 kc in Cincinnati  
ove Staion X (861s.. I saw it once) Call would give trouble area & anyone  
near wud stop & dial in on one of those police call boxes (remember) & ask  
for details.

No HF (mf) 2-way in the 30s. How many old BC rx's have u all seen w.  
"police" right above the BC band. THIS'S why.

Marty

From boatanchors@theporch.com Mon Mar 11 17:41:34 1996  
From: aa4rm%amos.UUCP@mathcs.emory.edu (Marty)  
Subject: Re: 3885 / 8907 Stromberg/Weco things  
Message-ID: <9603111832.AA01327@amos.YP.mystnite>

re-re 3885

I've sure noticed that too. The AM crowd is anchored by the Galvin BC611's "natural frequency."

And hey did u see my post re the hand-carried 75m thingies with p-p 3A4 outputs cum 14' whip that mighta been the 'walkie base' to go with the BC611 'handi-s' in Korea (I know we used 50mc FM in PRC6s then but they mighta given these to national 'irregulars.' like the Halli HT1-s to the Montanards

Thing I'm referring to was the '8907 Stromberg/Weco (?)' thing from yesterday.

Marty

From boatanchors@theporch.com Mon Mar 11 00:29:36 1996  
From: jproc@worldlinx.com  
Subject: Re: Apache Part  
Message-ID: <Chameleon.4.01.2.960310175849.jproc@>

The frequency drum dial for the Apache is now spoken for.

Regards,

~~~~~  
Jerry Proc VE3FAB  
E-mail: jproc@worldlinx.com  
Radio Restoration Volunteer  
HMCS Haida, Toronto Ontario  
~~~~~

From boatanchors@theporch.com Mon Mar 11 00:29:36 1996  
From: TEK0CH@aol.com  
Subject: B&W 5100-B relay needed !  
Message-ID: <960310174338\_242513540@mail02.mail.aol.com>

Well, it finally happened! I had been told that the relay (that does just

about everything in a B&W 5100) is a weak link in that transmitter and mine finally did fail. The same relay is used in either the 5100 or 5100-B. It is a 115 vac 9,500 ohm relay with lots and lots of contacts. The coil is open and before I try to wind 60 miles of #40 on it I thought I would try to find one via Boatanchors!

The relay designated X-504 on the schematic was manufactured by Automatic Electric Co. in Mankato, Mn. I wonder if they are still in business? I should have stopped by when I lived in Wayzata, Mn.

Thanks for your help, if you can. I checked the parts.you.need file but did not find any 5100 parts rigs listed.

I am a contributing member of Boatanchors and have been delighted with the system. I have purchased several rigs, sight unseen, and they have arrived exceeding my expectations. They included SB-220, SB-1000, HW-12, Harvey Wells T-90 and several parts rigs. Needless to say I have gotten plenty of pleasure and enjoyment for my \$12.00 investment. Thanks to those who put this together.

Tom Koch - W4UOC  
8170 Habersham Waters Road  
Dunwoody, GA 30350  
(770) 391-0914  
tekoch@aol.com

From boatanchors@theporch.com Mon Mar 11 17:41:34 1996  
From: rdkeys@csemail.cropsci.ncsu.edu  
Subject: Re: Care and Feeding of RAK/RAL??  
Message-ID: <9603111823.AA100818@csemail.cropsci.ncsu.edu>

> Hi Bob,  
>  
> Finally located a RAK-7 w/ power supply this last weekend. Still looking  
> for the companion RAL. Any words of wisdom before I dive into the unit  
> and check it out?  
>  
> 73 Russ W2DYY  
> russ@eng.mc.xerox.com

RAL/RAK HINTS and KINKS.....de NA4G:  
\*\*\*\*\*

Check for shorts in the audio tuning transformer.

Check for shorts between the audio jack and ground (it is a floating jack).

Check for broken, or tight bandswitch wafers. Each one floats on two screws underneath. They MUST float with some 0.005 inch clearance. Failure to properly float the wafer sections WILL cause improper bandswitch operation and may break the wafer plates (big ceramic muthers). Also, don't drop the beast, since it breaks wafers.

Make sure the RAK has the power supply ballast resistor lamp switched OUT in the power supply. Actually, you can run the both of them RAK and RAL without the current limiting resistor on normal house current, since it is more stable than on ships generators of old.

CHECK the power supply output voltages. IF they are high, then you may need to run the beast on a variac to keep from blowing things. Remember this was designed for pre-wwII 110vac not modern 120vac.

Check for leaky oil tub bypass caps. I had one blow, one time.

Check the audio tuning switches for good contacts. Lube if necessary with some WD-40. The toggle switches there are a bit cheap compared to all else.

Check the jumpers underneath for the proper power supply settings. Shorted is for battery use open is for normal use, if I remember right.

Check the power supply transformer carefully on a variac for shorts. Mine blew about 20 years back, and I have used external power supplies since, most of the time to conserve the originals. It may have been due to a filter capacitor shoring.

Check the detector plate volages. They should be quite low (forget what the manual calls for right off, but it is around 35 volts or so). If they are off, you may have a bad series dropping resistor. If it will not regenerate properly or is not smooth in going into regeneration, check the divider resistor string and the regen control pot.

Oil the main tuning capacitor shafts and bearings, but NOT the wiper contacts. Oil the trimmer capacitor shafts and bearings, but NOT the wiper contacts. Careful needle application of the oil works well, or use a fine guage dip wire to apply the oil. Oil the bandswitch bearings and vaseline the bandswitch contacts, very sparingly, according to the manual.

There are felt washers under the capacitor knobs. Make sure they are seated properly to barely drag the capacitor, which keeps it from wandering. There is a small wire under the main tuning knob that acts as a ground wiper, don't damage it.

Once ready to go, manually rotate the bandswitch 100 times back and forth to wipe the contacts properly. You may want to do the slowly at first, and then with more vigor after you make sure it is free and non-binding.

DO NOT ground the audio leads on either side. The transformer has a center tap to ground, and you can make the audio sound very bad, and may damage the windings if not careful.

On an external speaker, use the filter on the audio output leads (a can mounted on the back wall of the cabinet), to prevent feedback into the receiver around a transmitter --- probably not necessary on the RAK.

Check that the grid caps and wires are good and seat on the tubes properly.

Check the antenna common coupling capacitor. It may be open or blown or shorted. Probably use the jumper to go around it, unless using several receivers on the same antenna line.

Check the alignment. If the capacitors on the RF stages can't trim, the alignment is off somewhat.

Check the regen control pot and the rf gain pots for smooth contact. If necessary lube or replace.

Check the tubes on a checker. They are probably good, and are not highly stressed, since mine have been running the same sets of tubes daily for almost 20 years. Maybe I should check mine.....(:+{} }.....

Pull the 41 in the AVC tube, since I doubt you will ever use the thing in AVC mode, and keep it for a spare audio output tube.

You can use a barrel UHF connector for the antenna connector if it is a late model RAK/RAL with the coax fittings, else it uses binding posts.

That is all I can think of right off.....

Bob

From boatanchors@theporch.com Mon Mar 11 00:29:36 1996  
From: Paul Christensen <PaulC@jax.se.continental.com>  
Subject: Collins 30W & 32 Series Pre-WWII XMTRS  
Message-ID: <31438B10@se.continental.com>

I have been searching relentlessly during the past five years for a pre-WWII Collins transmitter. Examples are the 30W, 32G, 32RA, 40B, etc.

These are the small, low-power, black rack-mount types.

Is there anyone out there that can point me in the direction of one?  
I'll even pay a sizable finder's fee for your effort!

-Paul, N9AZ  
paulc@jax.se.continental.com

From boatanchors@theporch.com Mon Mar 11 00:29:36 1996  
From: Sandy Blaize <70401.134@compuserve.com>  
Subject: Collins Mechanical Filters  
Message-ID: <960311044742\_70401.134\_IHD111-4@CompuServe.COM>

Hello gang!

Collins made filters in at least two flavors: "Excellent" and "inexpensive".

The excellent ones were just that. Low bandpass ripple, good passband skirt shape, good consistency from filter to filter. They were also more expensive. Keep in mind that the 'reject' rate was high on these things. They seemed to be finicky to manufacture.

The inexpensive ones (usually encased in the small rectangular bakelite/plastic cases) had a considerable variation from filter to filter. These also were very prone to breaking up inside if dropped on the floor! This is sometimes easy to tell, as it will rattle when shaken! These model filters found their way into a lot of marine HF SSB transceivers because they did the job and WERE inexpensive! Personally I would steer clear of these unless they are available CHEAP.

The filters used in the R-390A, 51J-4, Mackay 3010 were of much higher quality (first type above). If you are 'filter hunting' for a homebrew SSB project, I'd advise using the better filters. You won't be disappointed!

Lastly, I would advise any mechanical filter be handled with the same precautions you might give a valuable vacuum tube. Don't handle it roughly or drop it!

73,

Sandy W5TVW

From boatanchors@theporch.com Mon Mar 11 00:29:36 1996  
From: USSAILIS@forum.phast.umass.edu  
Subject: Deep discharge batteries  
Message-ID: <01I26PTPZ28200FCTB@rfd.oit.umass.edu>

I had a deep discharge battery that only lasted two years. I used it to run my Kenwood 430S, and kept it mostly charged, except for a complete drain

about every two or three weeks. Did I do wrong? Is this what killed it?

Jim, W1EQ0

From boatanchors@theporch.com Mon Mar 11 17:41:34 1996  
From: "F r6fqHo!ht" <75121.100@compuserve.com>  
Subject: Dues (improvement fees)  
Message-ID: <960311081657\_75121.100\_FHI40-5@CompuServe.COM>

I ditto the past few comments about the dues. It shouldn't be Jack's personal expense to maintain or improve the server he is using to provide "US" with better access. Having said that:

I wouldn't care if Jack & Phil et al would buy "good Dominican Republic" cigars and go out and sit on "theporch" and enjoy!!!

Regards from Honolulu,  
Raymond J. Cote

From boatanchors@theporch.com Mon Mar 11 17:41:34 1996  
From: Duncan Cadd <dcadd@luc.ac.be>  
Subject: Dynamotor DY88Fr question  
Message-ID: <9603110816.AA14278@alpha.luc.ac.be>

Greetings, Anchorites, from a bright and sunny Diepenbeek in N.E. Belgium!

Before I get to the question, I picked this beauty up on Saturday for ten Dutch guilders at the s' Hertogenbosch ham rally in the Netherlands. It was first time I'd been there, if any of you are in the area for business etc I can recommend a visit, computer junk was barely 10%, modern kit, cables, components struggling to make 50% and all the other 40% was real BAs and BA components by the table load. Wish I'd taken more cash and didn't have to worry about moving back to the UK in a few months! Aside from the dynamotor, here's some of the goodies I saw, just to give a flavour of the event (prices in Dutch guilders):

75A4 + filter + manual fl 1250 (my very first sighting! It looked perfect.)  
RV4C vfo fl 375  
TR6 6m rig fl 900  
KWM-2A + psu fl 1900  
Eddystone 670A fl 225  
Federal Type 110 }  
RCA Radiola III } I didn't dare ask how much for these - looked new!

Atwater Kent Model 20 }  
BC669A (not for sale - exhibit of a Netherlands WW2 society)  
RCAF R-316B/ARR26

Hallicrafters s-38 fl 225  
SX122 fl 280  
Sky Courier (vol knob missing) fl 40

Eddystone, type unknown, coverage 150kc-24Mc, grey box 7"x11"x8" approx  
fl 175

BC314G fl 400  
2 x DY88/GRC-9-GY green boxes, price not seen  
BC221 (it sold fast!)

and for us foreign European lot,  
Telefunken ELK639 9,8kHz-30MHz + manual fl 685  
RAF R1155/T1154 price not seen

There was piles of stuff I couldn't identify - wish some of you lot had been there to tell me what it was! Masses of valves, piles of hv capacitors, truckloads of coil formers - I shall go again, given the chance. The London rally on the same day at Pickett's Lock was, so I'm told, very disappointing, lots of new kenyaecom but no interesting second hand stuff or useful junk. Now we know why - it all went to den Bosch!

Right. Dynamotor question. The beast I have is serial no. 166464, made by Ste Radio-Energie Paris and the plate on it declares it to be US Signal Corps Dynamotor for DY88Fr and it gives 580V at 0.1A. It can apparently be fed with 7.2/14.5/29V and internal inspection shows that it has been used, but seems in good nick, it has four commutators labelled +/- HV (the minus goes to case, the plus brought out through a thin red wire) +/- 6V, +/- 12V and +/- 24V. Aside from the thin red wire, there are four other wires which emerge through a rubber grommet. These are two heavy white wires, one striped; and two medium sized wires, one red, one blue. An ohm meter says all four of these wires are connected together through a low resistance.

Given that the thin red wire is the HV out, to what must the other four wires be connected in order to get this beast performing ?

Thanks,  
73,

Duncan ON9CHU / G0UTY G-QRP 8117 dcadd@luc.ac.be



From boatanchors@theporch.com Mon Mar 11 00:29:36 1996  
From: "Dee C. Almquist" <soundnmind@rica.net>  
Subject: FS KRON-HITE TEST EQUIP.  
Message-ID: <19960311022220392.AAA180@relay.rica.net>

Hi gang...

I found something rather unusual. Kron-Hite DCA-50R transducer tester in near mint condition. I dont have a book for this but I understand that one is easily obtainable. The power tubes look new as does the rest inside. Unit is rack mount. Any offers? Will trade for certain BA s or for firebottle hi fi or Altec amps.

73

Dee, W4PNT  
Dee's marina, collector of boatanchors!

From boatanchors@theporch.com Mon Mar 11 00:29:36 1996  
From: Dean Norris <dnorris@k7no.com>  
Subject: FS: Heath  
Message-ID: <199603102030.UAA02873@ssi.syspac.com>

I have a Heath SB-101, HW12 (80M) and HP23A supply for sale. The PS needs a power cord (it got pinched off during xport) and the '101 needs a meter cover. The -12 looks super and would make a nice little novice stn. Also have a shure 444 mike. This is the 1st part of a station from a recently deceased W0 and I am selling it for his son who is not a ham. It was used until his death and was obviously well taken care of. The pinched cord and broken meter face occurred in shipping from Minnesota to AZ.

Will sell all for \$250 and shipping.

e-mail to addr below.

Thanks.....

Dean

C. Dean Norris  
Amateur Radio Station K7NO  
e-mail to dnorris@k7no.com

From boatanchors@theporch.com Mon Mar 11 00:29:36 1996

From: "Dick Dillman" <ddillman@igc.apc.org>  
Subject: FS: C-D Decade Cap., Eico Bridge  
Message-ID: <70309.ddillman@igc.apc.org>

>> Cornell-Dubilier Decade Capacitor Model CDA-5, S/N 10330

This decade capacitor is housed in a thick brown plastic (Phenolic?) case 5"W x 2-3/4"H x 3-1/2"D with a top panel of aluminum. Black background, aluminum labels and round C-D logo in the middle in red. Two pointer knobs select capacitance in the range .01 to .0001 mfd. Maximum voltages 600 DC/220 AC. Very good, original, unmodified condition inside and out. Original C-D calibration chart on bottom, Hughes Aircraft property sticker on the side.

\$15 plus shipping from San Francisco.

>> Eico Resistance-Capacitance-Comparator Bridge Model 950B, S/N 42730

This bridge is housed in a steel case 10"W x 8"H x 5"D with a brushed aluminum front panel. Measures resistance and capacitance or an unknown component may be compared to a known component or standard. Readout on circular scale with transparent plastic pointer. The correct setting is indicated by a green "eye" tube in the upper right corner. Two tubes: 6X5 and 1629 "eye". Very good, original, unmodified condition inside and out.

\$40 plus shipping from San Francisco.

Dick Dillman  
WPE2VT N6VS ex-WA2BJK  
<ddillman@igc.apc.org>  
Collector of Heavy Metal:  
Harleys, Willys and Radios Over 100lbs.

From boatanchors@theporch.com Mon Mar 11 00:29:36 1996  
Subject: FS: heathkit DX-60 \$75

I have a Heathkit DX-60 in excellent physical and working condition , with original manuel , i don't have the vfo for it , \$75 plus shipping Rick Yerke yerke@icontech.com

----- Forwarded message ends here -----

Dick Dillman  
WPE2VT N6VS ex-WA2BJK  
<ddillman@igc.apc.org>  
Collector of Heavy Metal:  
Harleys, Willys and Radios Over 100lbs.

From boatanchors@theporch.com Mon Mar 11 00:29:36 1996  
Subject: FS:Collins Linear Amplifier 30L-1

I have for sale a Collins Linear Amplifier Model 30L-1 in good and working condition.

I'm asking \$500 plus shipping, I live in Wheaton, Maryland.

If interested you may email aa3ha@wirelessinc.com or I can be reached at 301-460-6616 after 6pm EST.

Thanks!

----- Forwarded message ends here -----

Dick Dillman  
WPE2VT N6VS ex-WA2BJK  
<ddillman@igc.apc.org>  
Collector of Heavy Metal:  
Harleys, Willys and Radios Over 100lbs.

From boatanchors@theporch.com Mon Mar 11 00:29:36 1996  
From: "Dick Dillman" <ddillman@igc.apc.org>  
Subject: Fwd: FS: heathkit DX-60 \$75  
Message-ID: <74526.ddillman@igc.apc.org>

\*NOTE\* The message below is a re-post from rec.radio.swap. All replies must go to the person making the post, not me.

----- Forwarded message begins here -----

From: Rick Yerke <yerke@icontech.com >  
Newsgroups: usenet.rec.radio.swap  
From boatanchors@theporch.com Mon Mar 11 00:29:36 1996  
From: "Dick Dillman" <ddillman@igc.apc.org>  
Subject: Fwd: FS:Collins Linear Amplifier 30L-1  
Message-ID: <74531.ddillman@igc.apc.org>

\*NOTE\* The message below is a re-post from rec.radio.swap. All replies must go to the person making the post, not me.

----- Forwarded message begins here -----

From: mwoodruff@wirelessinc.com <mwoodruff@wirelessinc.com>  
Newsgroups: usenet.rec.radio.swap  
From: boatanchors@theporch.com Mon Mar 11 00:29:36 1996  
From: "Dick Dillman" <ddillman@igc.apc.org>  
Subject: Fwd: LEFTOVERS FROM ESTATE SALES!!  
Message-ID: <74521.ddillman@igc.apc.org>

\*NOTE\* The message below is a re.post from rec.radio.swap. All replies must go to the person making the post, not me. The message has been edited to remove non-BA items. The full list may be found in rec.radio.swap.

----- Forwarded message begins here -----

From: Jack Ray <k4mzw@akorn.net>  
Newsgroups: usenet.rec.radio.swap  
From: boatanchors@theporch.com Mon Mar 11 17:41:34 1996  
From: Michael.J.Knudsen@att.com  
Subject: Re: GE Memories  
Message-ID: <9603111708.AA29920@bock.ih.att.com>

Hi! I also have a GE H-51, and yes it is impressive, built like a tank. It's the same as the RCA Radiola 82, almost identical to the famous Radiola 80 except for some extra terminal strips to allow phono input and recorder output, and a lot of wasted space on the RF chassis for remote control.

I have a 2nd such set, a Westinghouse grandfather clock style, with the wired remote control -- nice flat cable to go under the carpet. The two chassis are mounted vertically inside the clock cabinet. To keep the 45s and 80 vertical, these are wired out to a separate little shelf.

All these sets have a sort of projection dial -- the number drum is etched out of thin metal, and the pilot light shadows the numbers up against a frosted view window.

These radios also have a wide/narrow bandwidth switch, must be one of the first, since they came out around '31.

About asbestos -- I think the earlier consensus was to spray some fixative lacquer over it to keep little bits from getting into the air, and leave it. Yes, it's there for a reason as you said. 73, mike k aa9rg

From boatanchors@theporch.com Mon Mar 11 17:41:34 1996  
From: Karan Lee Carruth <klccarru@tenet.edu>  
Subject: Re: Gell Cell  
Message-ID: <Pine.OSF.3.91.960311135437.27717A-100000@beall.tenet.edu>

=E9]

I once had a Motorola wall charger that provided either trickle charge or=  
=20  
overnight charge for batteries for 1960s vintage Handi-Talkies (they were=  
=20  
called bricks because of their size and weight). The batteries were=20  
ni-cads of less than ten Volts if I remember correctly. They used a=20  
voltage supply of around 70 Volts to more closely approximate a constant=  
=20  
current source. This is a common reason for using a high supply voltage=20  
in chargers that use a simple resistor for current limiting. The larger=20  
the current limiting resistor in comparison with the batteries internal=20  
resistance, the less effect the battery has on the current flow.

Anyway, that's my two cents on batteries and charging voltages.

Lenox Carruth  
klccarru@tenet.edu  
=20

From boatanchors@theporch.com Mon Mar 11 17:41:34 1996  
From: Chuck Penson <penon@sci.mus.mn.us>  
Subject: Gell Cells  
Message-ID: <31444169.27BB@sci.mus.mn.us>

Gang:

Is it safe to assume that any given gell cell I encounter at a flea  
market or surplus store is going to be bad? I know a place in town  
selling 15 AH 12 volt gell cells for under \$10. They appear to be brand  
new, and unused. But who knows how long they have been sitting  
around...

It there a quick test I could do?

--

Chuck Penson  
Education Division  
Science Museum of Minnesota

person@sci.mus.mn.us  
612.221.4510 voice  
612.224.5092 fax  
<http://comped.sci.mus.mn.us>

Standard Disclaimer: The opinions expressed are etc. etc. ...

"Nothing is too wonderful to be true" -- Michael Faraday

From boatanchors@theporch.com Mon Mar 11 17:41:34 1996  
From: rdkeys@csemail.cropsci.ncsu.edu  
Subject: Re: Gell Cells  
Message-ID: <9603111635.AA100481@csemail.cropsci.ncsu.edu>

>  
> Gang:  
>  
> Is it safe to assume that any given gell cell I encounter at a flea  
> market or surplus store is going to be bad? I know a place in town  
> selling 15 AH 12 volt gell cells for under \$10. They appear to be brand  
> new, and unused. But who knows how long they have been sitting  
> around...  
>  
> It there a quick test I could do?

Nope. You need to carry a small voltmeter with you and read the voltage.

I have been using these things surplus (I pay a buck a pop at the local junk battery emporium before they go onto the scrapping truck), and my experiences with them indicate that IFF you can get a voltmeter to measure more than 4.5 on a 6 volter or 10.5 on a 12 volter, then they are easily resurrectible. If they measure less than 4.5/10.5 volts, then one or two cells may be dry or shorted or choked up with lead sulfate.

NOTE --- these batteries are NOT gel cells (unless they so state and most of those that are are a Gates product), but are standard lead acid wet cells that have sealed rubber vent caps which vent but won't allow the addition of water (unless you trick them and water them with a syringe needle through the rubber vent cap). The Yuasa, Panasonic, etc., are ordinary sealed lead acid batteries.

If the batteries are brand new, unused, but just old, they are probably quite good, and will last several years. On sitting for more than six months, they begin to sulfate up, and will need very long SLOW trickle charges at AH/100 for several days. It is best NOT to voltage regulate charge them but to current charge them to rated specifications for rated times. They are designed for a AH/7 charging rate, usually, for 10 hours.

Consult the manufacturers charts for more details, but my experiences dictate that AH/7 is the standard charge for 125% x 7 hours or about 10 hours. For trickle charging use AH/25 to AH/100. For floating charging use AH/400. Use the proper current limiting resistances to effect the proper charging rate. I use ordinary household lamps on a 24-30vdc power supply. A 100 watt lamp gives a 1 amp charging current. A 200 watt lamp a 2 amp charging current. A 15, 10 or 7.5 watt lamp is good for trickle charging. A 4 watt xmas tree lamp is good for floating charging.

Cycle the batteries several times using an auto headlamp as the load (that is 4 amps at 12 volts), or on small batteries a brake lamp (1 amp at 12 volts). If they have been sitting for a long time, they get rather sluggish, and need cycling.

I use these things all the time as filament and plate batteries in strings up to 300 volts. I run them in wooden trays of 48 volts per tray.

If you are really interested, I have a manuscript that I put together for our HomeBrew SIG, a few years back. It is about 2 megs postscript.

Take care NOT to overcharge OR undercharge them and they are quite serviceable batteries --- not as good as Edison cells or wet nicads, but quite useable for most Boatanchorite/Glowbuggite purposes.

Also, nothing is quieter than a good regen on BATTERY power all the way. These are quite good for small filament batteries in 2/3 tube rigs.

Good Luck/Bob/NA4G  
rdkeys@csemail.cropsci.ncsu.edu

From boatanchors@theporch.com Mon Mar 11 17:41:34 1996  
From: rdkeys@csemail.cropsci.ncsu.edu  
Subject: Re: Gell Cells  
Message-ID: <9603111709.AA100616@csemail.cropsci.ncsu.edu>

>  
> rdkeys@csemail.cropsci.ncsu.edu wrote:  
>  
> > Use the proper current limiting resistances to effect the  
> > proper charging rate. I use ordinary household lamps on a 24-30vdc power  
> > supply. A 100 watt lamp gives a 1 amp charging current.  
>  
> Just a quick clarification. You said 24-30 vdc supply. I should use  
> this voltage and a lamp to charge a 12 volt battery?

You can use 500 volts to charge the thing if you want, as long as you use

a proper series current limiting resistance. 500 Volts is perhaps a bit higher than practical. For practical charging, use about a 2x-4x voltage source compared to the battery under charge.

I had a 24v 10a transformer that I put a simple power supply together with, using a bridge and 5000mf cap. Then I take from the common HV of about 30 volts, a series of 8 lines using a lamp socket and then to a bolt for a connection at each line. That way, I can charge 8 batteries at one time. I just screw in whatever sized lamp I need for charging whatever size is any particular battery. I use small clipleads to hook up to the bolts and the battery spade lugs.

The best charging obtains through a charging resistance that will limit the current to the required rate and thus, you need to charge at some excess above the battery voltage. What that is does not matter. But, for practical convenience, I chose 2x the usual 12 volt battery or around 24-30 volts, which is fine.

Traditional battery charging panels from real radio installations (like aboard ship) used a 120 v ships DC line and charged the 120 vdc radio battery in banks of 60 volts, using, guess what --- a lamp bulb or sometimes real large resistors. Either will work just fine. Look at any of the early radio manuals for the practical particulars.

Note that the brightness of the lamp gives a good indication of how the battery is charging. A 24-30vdc source will make a 120vac lamp glow with a rich warm yellow glow, not very bright. A battery on charge, taking the proper charge, will have a weak glow, but the filament will be nicely glowing. A battery that is sulfated and not taking proper current will have a very dim glow or none at all on the bulb filament.

The only requirement is to maintain the desired current through the charging battery load. How you get there is mostly irrelevant.

I have charged the batteries off of 150vdc lines, with no problem. You just have to reach for the required sized lamp to effect the proper charging current.

CAUTION: If you charge batteries off of greater than 75 volt sources, remember that that is sufficient voltage to be deadly. Hence, use caution.

Good Luck

Bob/NA4G



From boatanchors@theporch.com Mon Mar 11 17:41:34 1996  
From: Bob Roehrig <broehrig@admin.aurora.edu>  
Subject: Re: Gell Cells  
Message-ID: <Pine.ULT.3.91.960311112254.22598A-100000@admin.aurora.edu>

On Mon, 11 Mar 1996, Chuck Penson wrote:

> Is it safe to assume that any given gell cell I encounter at a flea  
> market or surplus store is going to be bad? I know a place in town  
> selling 15 AH 12 volt gell cells for under \$10. They appear to be brand  
> new, and unused. But who knows how long they have been sitting  
> around... It there a quick test I could do?

>From the experinces I've had, I would say take a voltmeter and a load  
(like a 12 volt bulb). Measure across the battery under load. If there  
is not enough goo to light the lamp, I would be suspicious.

E-mail broehrig@admin.aurora.edu 73 de Bob, K9EUI

From boatanchors@theporch.com Mon Mar 11 17:41:34 1996  
From: rdkeys@csemail.cropsci.ncsu.edu  
Subject: Re: Gell Cells  
Message-ID: <9603111844.AA100841@csemail.cropsci.ncsu.edu>

> > Is it safe to assume that any given gell cell I encounter at a flea  
> > market or surplus store is going to be bad? I know a place in town  
> > selling 15 AH 12 volt gell cells for under \$10. They appear to be brand  
> > new, and unused. But who knows how long they have been sitting  
> > around... It there a quick test I could do?

>  
> >From the experinces I've had, I would say take a voltmeter and a load  
> (like a 12 volt bulb). Measure across the battery under load. If there  
> is not enough goo to light the lamp, I would be suspicious.

I would differ somewhat with this, since upon sitting for some time,  
the battery may be sluggish and not deliver into a load, but be perfectly  
resurrectable with a topping off charge. Thus, the voltage will be ok,  
but no-go on the lamp load. That does not mean that the battery is bad  
only shopsat too long. IFF the battery will not come up to greather than  
the voltage of 1 less than its number of cells (4.5v on a 6 volter or  
10.5 v on a 12 volter), then there are serious problems in one or more  
cells, and in that case leave it for scrap.

If I get over the minimum voltage, I have never had a bad battery, even  
from scrap yards, after they have served their normal service life. Some

of these small ``gel cell'' sealed wet lead acid batteries that I routinely use are reaching 12 years of age, and still quite usable for light loads.

Also, it may depend upon the use that you will put the battery to. If you need load power, such as IC rig power, dynamotor power, or heavy filament power, then the load handling factor is important. If you need only low power at a few ma for a plate string, then even shot batteries under load deliver acceptable power for BA/Glowbugging use. Batteries that are otherwise shot in load handling capacity, but still have all their cells functioning (not shorted, sulfated dead, etc.) work very well for years on things like regen receivers, small Hartley oscillators, and the like.

Food for thought.....

Bob/NA4G

From boatanchors@theporch.com Mon Mar 11 00:29:36 1996  
From: ks0f@i1.net (MIKE SANDERS)  
Subject: Gone QRO  
Message-ID: <199603110012.SAA14019@mail1.i1.net>

Greetings All,

After great success with the old homebrew 6T9 (I got it back up to 4 watts) I was inspired to new heights.

The Knight T50 had been on the shelf almost a month since arriving without as much as a checkout. It was time. I had to fix some damage from the trip first but when that was done it was time to power up. I was amazed at how smoothly the old tx tuned up into the dummy. A check into the antenna showed 32 watts out on the Bird on 7040kcs plus or minus a bit. (Contrary to the ER article of a couple months ago.) 4mil grid and 110mil Plate current with clean tuning all the way. The signal in the Drake R4B sounded good. After the WI test is over later I will venture a contact this evening. 32 watts! Tuned by the

book! I will see how it acts with one of the WRL 755 vfos later also. I got two of the T50s in this deal and will have to get the other one on line also. Stay tuned.

73

de KS0F

ks0f@i1.net

From boatanchors@theporch.com Mon Mar 11 00:29:36 1996  
From: SR150@aol.com  
Subject: GPR90, GSB1, & Spkr for sale

Message-ID: <960310151000\_165110384@mail06.mail.aol.com>

>Hello,

>

>I have a very nice GPR90, with cabinet, cosmetically a 9 on a 1 to 10 scale,  
>in good working order. This unit comes with matching speaker (grill cloth a  
>bit dirty, but paint great -- and a little paint smear on back of the top of  
>the cabinet where someone was painting a light blue adjacent to where it was  
>sitting) and the matching ssb unit, the GSB1. The GSB1 looks as good as the  
>receiver, but doesn't work. The speaker in the enclosure is a DuKane.

>

>I would be glad to answer any particular questions that you have. Frankly, I  
>just got these in a trade and wifely problems are forcing their sale. She  
>says one can have enough radios.

>

>\$775.00 plus UPS

>

>I haven't seen a nicer one.

>

>73, Mike KA7ASF

>Mike Horvat

>112 East Burnett Street

>Stayton, OR 97383

Please no telephone calls.

>

>

From boatanchors@theporch.com Mon Mar 11 17:41:34 1996

From: MEC <danmec@inet.uni-c.dk>

Subject: Re: Hamfest Chicago-land ?

Message-ID: <Pine.3.89.9603110928.A3662-0100000@inet.uni-c.dk>

I will go over there the coming weekend and wonder if there are any  
BAS related events in Chicago at that time ?

73 Rag OZ8Ro

From boatanchors@theporch.com Mon Mar 11 00:29:36 1996

From: w0ogh@ix.netcom.com (Larry Godek)

Subject: Heath manuals

Message-ID: <199603110349.TAA21966@ix6.ix.netcom.com>

I still have available a heathkit AM-2 in very nice condition including

the manual for \$20 and an ORIGINAL of the Heathkit AT-1 transmitter.  
I'd like about \$18 for it if anyone is interested.

Larry W00GH@ix.netcom.com

From boatanchors@theporch.com Mon Mar 11 00:29:36 1996  
From: Walt Novinger <waltn@hooked.net>  
Subject: Re: Help with ID on Collins mechanical filters  
Message-ID: <314311A9.711D@hooked.net>

bsn@fusion.ph.utexas.edu wrote:

<snip>

> >From Collins Mech filter catalog ca. 1974

>

> (BW in kHz)

>

> 526 9691 010 = F455FD-19: nom BW 1.9 @ 3dB, max BW 5.4 @ 60dB

> 526 9693 010 = F455FD-29: nom BW 2.9 @ 3dB, max BW 7.0 @ 60dB

> 526 9694 010 = F455FD-38: nom BW 3.8 @ 3dB, max BW 9.0 @ 60dB

>

> case style FD.

>

> 73,

> Barry W5KH

And this, fellow BAites, is why \$12/year is a mere pittance. Thanks to  
Barry, and to all the folks who have helped me and others as we struggle  
to figure out what's happening with our boatanchors (and, like the 515,  
the occasional canoe-anchors).

73 to all de Walt

--

=====

Walt Novinger	Real Radios Keep You Warm At Night!
Collector of hollowstate communications receivers and test equipment	
waltn@hooked.net	wnovinger@shl.com
	CI\$: 73348,2015
<a href="http://www.hooked.net/users/waltn">http://www.hooked.net/users/waltn</a>	

From boatanchors@theporch.com Mon Mar 11 00:29:36 1996  
Subject: LEFTOVERS FROM ESTATE SALES!!

I have these items left following recent purchases of estates:

National NC-125	Good	\$	110.00
Heath DX-60 station Rx,Tx,&vfo	Exc.		185.00
Navy O'Scope (Dumont #190)	Exc. w/manual		75.00
Collins KWM-1's (3 on hand)			850.00-1,375.00
Heath SB-200 All mods + spare 572B's			400.00
Hallicrafters "Legionaire" SW Receiver ??			30.00
Simpson '260 with manual			30.00

All Prices include shipping within Cont. USA! Trades ??  
 Call 770-920-1024 fax 770-920-0700 or Message here.....

----- Forwarded message ends here -----

Dick Dillman  
 WPE2VT N6VS ex-WA2BJK  
 <ddillman@igc.apc.org>  
 Collector of Heavy Metal:  
 Harleys, Willys and Radios Over 100lbs.

From boatanchors@theporch.com Mon Mar 11 17:41:34 1996  
 From: Ken\_Warren@bsd.beavton.k12.or.us (Ken Warren)  
 Subject: MODEL 350A-1  
 Message-ID: <945253.ensmtp@bsd.beavton.k12.or.us>

Hello, I was told that you might be able to help me concerning a piece of surplus radio equipment that I have. This is the first time I have been on here and from what I have heard, I would like to know more about the system.

I have a model 350A-1 transmitter receiver unit that is pre or early WWII vintage.

It has a frequency coverage or 1.5 - 12 Mhz.

It is manufactured by Jefferson Travis radio corp.

No other nomenclature that I have found yet.

If you have any info on this I would like to hear from you.

Ken Warren, K7RPX

--

--

Beaverton School District  
 beavton.k12.or.us

From boatanchors@theporch.com Mon Mar 11 17:41:34 1996  
From: mack@mails.imed.com  
Subject: More Military BA's ??  
Message-ID: <9602118265.AA826563671@mails.imed.com>

I went to the Victoria, TX hamfest this past Saturday. The only items of BA interest were a TV7 for \$20 and several TS419S UHF signal generators for \$20.

The Signal generators were of interest because they appeared to be brand new! The guy selling them was from San Antonio, so I am guessing that they may have come from Kelley AFB. Kelley (and many others) is being shut down so we may start to see a lot more BA type stuff available. Kelley was a repair depot. Keep your eyes peeled. Perhaps someone is on the list that was stationed at Kelley and can tell us what we might expect from the current round of downsizing.

Ray Mack  
WD5IFS  
mack@mails.imed.com

From boatanchors@theporch.com Mon Mar 11 00:29:36 1996  
From: haynes@cats.ucsc.edu (Jim Haynes)  
Subject: More on batteries  
Message-ID: <199603110607.WAA12792@hobbes.UCSC.EDU>

>I had a deep discharge battery that only lasted two years. I used it to run  
>my Kenwood 430S, and kept it mostly charged, except for a complete drain  
>about every two or three weeks. Did I do wrong? Is this what killed it?

>Jim, W1EQ0

There is another page of graphs I didn't mention in the previous article. Self-discharge for both lead-acid and NiCd is about 20% of capacity per month. (versus 7% of capacity per year for alkaline primary batteries) So ya gotta keep charging.

One thing that is obvious when you think about it, for both storage and primary batteries, is that you get the most capacity when the load current is least. The more current, the more of the energy that gets dissipated heating the internal resistance of the battery, hence the less available to the load. At 68 degrees F you can discharge a battery at .05C rate and get about 100% of its capacity. This drops to about 50% if you

discharge at 1C rate; the other 50% goes into heating the battery.

There is a graph showing cycle life. At 77 degrees F, and discharging at 0.25C rate, if you discharge the battery 100% then you might get 300 charge/discharge cycles to the point at which the battery capacity is 50% of the original. If you discharge the battery only 50% each cycle then you might get 700 cycles. And if you discharge 30% you might get 1200 cycles. So depth of discharge is hard on batteries.

Then there is a graph showing the cycle life patterns you get with various charging conditions. There are no numbers connected with this, but you get the best cycle life with the appropriate charge cycle. If you overcharge you initially get more than 100% of the capacity of the battery, but it deteriorates much more rapidly after about 20% as many cycles as you get with the appropriate cycle. The total cycle life is maybe 30% what you would get with appropriate charging. If you undercharge the battery starts losing capacity immediately, and again you get only about 30% of the total cycle life you would get with optimum charging.

This is where it gets into what he said about automotive service being a compromise. In a car they overcharge somewhat, shortening battery life but assuring that the battery gets recharged even if you make only short trips between engine starts.

From boatanchors@theporch.com Mon Mar 11 17:41:34 1996  
From: Michael.J.Knudsen@att.com  
Subject: Re: More on batteries  
Message-ID: <9603111902.AA29979@bock.ih.att.com>

Tnx for the storage battery info. Sounds like you can't win without an ammeter and several alarm clocks.

About overcharging -- I heard someone recently debunking the "memory effect" of NiCad cells, saying that their loss of capacity was due to overcharging. Most uers leave Nicad stuff on permanent charge all the time, and even the trickle chargers wear them down over time.

However, stuff we've bought recently still has instructions recommending that once in a while you run the cells all the way down. Including a Rat Shack HTX handi-talkie and an electric toothbrush. So memory effect is still believed in in high places. 73, mike k aa9rg

From boatanchors@theporch.com Mon Mar 11 17:41:34 1996  
From: Karan Lee Carruth <klccarru@tenet.edu>  
Subject: Motorola HF Radios

Message-ID: <Pine.OSF.3.91.960311104234.5231C-100000@abernathy.tenet.edu>

The predecessor to Motorola, Galvin Manufacturing Corporation, made radios through World War Two. I believe that the name change occurred shortly after the war.

The first HF radio that I have seend with the Galvin name was the SCR-511 of which the basic component was the BC-745. This was the famous "Horsey-Talkie" which was a unique (and quite reasonable) solution to a problem that had ceased to exist by the time the radio was in production. A look at these units shows that they are the direct predecessor of the BC-611 (SCR-536) as the construction and many of the parts are very similar as is the basic schematic.

The BC-611 (well known WW-II Handi-Talkie (Walkie-Talkie was usually reserved for the pack sets at that time)) was also built by Galvin. No other combatant had such a small, easily used radio at any time during the war! Except for its well-known failing in the waterproofing area it was a very good radio for the time.

Since the war, I am fairly certain that Motorola build HF rigs for the military but can find no readily available evidence.

I have a catalog sheet showing AN/URC-100, AN/URC-101, AN/URC104, AN/URC-110 and AN/URC-112 radios which are various combinations of the 30-88 MHz, 116-150 MHz and 225-416 MHz bands.

I also have a data sheet on the AN/PRC-112(V) by Motorola which is a small, hand-held survival radio.

They also make the LST-5B Satellite Terminal which is a small, portable (i.e., manpack) unit.

I apologize for the latter getting out of the boatanchor catagory. However, the way military radios are constructed, they would anchor a canoe or serve as work stands for your Ferrari!

lenox Carruth, WA50VG  
klccarru@tenet.edu

From boatanchors@theporch.com Mon Mar 11 17:41:34 1996  
From: jcreid@CCGATE.HAC.COM  
Subject: Motorola HF radios  
Message-ID: <9602118265.AA826564505@CCGATE.HAC.COM>



Hi Gang,

I originally responded directly to Jeffery Herman's request, but I probably should've just posted it here. Motorola did make some HF receivers, sort of. They offered a line of 6m and 2m frequency monitors starting probably in the late 50's. They were a standard Motorola FM receiver with some metering options (on the discriminator, I think) that would allow a tech to monitor most likely a repeater and check it for frequency accuracy. The neat part is they also have an HF receiver inside for calibrating the unit to WWV. I think there are positions for 10 and 15MHz and is tunable over a small range. The output of the WWV receiver is then coupled (heterodyned?) to the FM unit. I've got one of each flavor and it's kinda neat to hear AM out of a primarily FM radio. I may be able to provide some more details if anyone else is interested.

-Jim N6SVS  
jcreid@ccgate.hac.com

From boatanchors@theporch.com Mon Mar 11 17:41:34 1996  
From: lstolz@tekelec.com (Lynn Stolz)  
Subject: Re: Motorola HF Rigs  
Message-ID: <9603111356.AA08408@london.oh.tekelec.com>

Ever notice that the most popular frequency in the BC-611 is 3885 kHz?  
Hmmm...

Lynn  
N8AJ ... paid "Lurker"

From boatanchors@theporch.com Mon Mar 11 17:41:34 1996  
From: gbunza@eagledes.com  
Subject: Name Plate for RT-841/PRC-77  
Message-ID: <9603111625.AA23361@eagledes.com>

Does anyone have an ID/Name Plate for an RT-841/PRC-77 Transceiver. I have searched for one for years to no avail. Any help would be appreciated.

Geoff Bunza  
gbunza@eagledes.com

From boatanchors@theporch.com Mon Mar 11 00:29:36 1996  
From: CVICTOR@dbc.com  
Subject: Need some tips on HV power supply design for my 3-1000 amp:  
Message-ID: <01I26A0RN9F68Y5JPA@dbc.com>

Greetings BA's,

I am building a 3-1000 RF amplifier and have collected the following components for the pwr supply:

1. Sprague Vitamin 'Q' capacitor, 17 uFd's at 5KV
2. ITC Thordason, New old stock, Swining Choke, 5~25 Hy's at 400ma. DC resistance is 32 ohms and the HV insulation is 5KV.
3. A 20 Amp variac, very nice condition, 220 input, but w/o the 'big knob' to crank it with. Will have to find a knob for it somewhere.
4. 4 Diode bank assemblies 10KV each at 2 amps, could be wired for bridge rectifier if needed, beefy, and have mounting screws.

Last but not least, and this is the engineering question:

5. A plate xfmr with dual 110 primarys for either 110 or 220 input, and the output is 6KV at 300ma WITHOUT the center tap!!!

Now what type of design can I use to keep the Plate Voltage under the max rating for the 3-1000? (Someone told me it was 6KV-is this correct??)

Do I try a half wave configuration? Or just use the Variac to limit the primary voltage on the input of the xfmr with a mechanical stop as to not go any higher than necessary? Run it off of 110 VAC with the xfmr wired for 220 VAC and use a bridge rectifier configuration?

This one has me stumped!!!

Thanks for your replys, and will let you know what the outcome is.

Chris WA6SUY Near San Francisco, CA.

From boatanchors@theporch.com Mon Mar 11 00:29:36 1996

From: w7ni@teleport.com (Stan Griffiths)

Subject: Re: Need some tips on HV power supply design for my 3-1000 amp:

Message-ID: <199603110035.QAA23884@desiree.teleport.com>

>I am building a 3-1000 RF amplifier (snip)

>Last but not least, and this is the engineering question:

>

>5. A plate xfmr with dual 110 primarys for either 110 or 220 input, and the

>output is 6KV at 300ma WITHOUT the center tap!!!

>

>Now what type of design can I use to keep the Plate Voltage under the max  
>rating for the 3-1000? (Someone told me it was 6KV-is this correct??)

I checked the Radio Amateur's Handbook and it says the 3-1000Z is good for  
3000 volts maximum at 800 ma.

>Do I try a half wave configuration? Or just use the Variac to limit the primary  
>voltage on the input of the xfmr with a mechanical stop as to not go any higher  
>than necessary? Run it off of 110 VAC with the xfmr wired for 220 VAC and use a  
>bridge rectifier configuration?

>

>This one has me stumped!!!

Me too because I think your choke and plate transformer do not have high  
enough current ratings for a 3-1000Z. Do you already have the 3-1000Z or  
could you switch to a 4-1000A instead? You can wire the 4-1000A as a  
grounded grid triode and use a circuit very similar to the 3-1000Z circuit  
but it is rated at 6000 volts at 700 ma maximum. Obviously, you don't have  
to run it at maximum.

You could wire the diodes in a bridge configuration eliminating the need for  
a plate transformer center tap. You could also wire the plate transformer  
primaries in series and run it off of 220 which is compatible with your 20  
amp Variac. I would put the filter choke in the B- lead to keep the plate  
voltage off of it since it is only rated at 5 KV. Make sure you meter the  
high voltage and don't turn the Variac up too far.

If you use the 3-1000Z and put 3000 volts on the plate and draw no more than  
300 ma (maximum rating of the transformer) you will run about 900 watts  
input and about 450 watts output at 50% efficiency which is all I ever expect  
out of a class B grounded grid linear amplifier. Your mileage may vary. On  
the other hand, if you switch to a 4-1000A, you can run the plate voltage up  
to about 4500 without much risk (the part at risk is the 5000 volt filter  
capacitor) and still draw 300 ma which is 1350 watts input or about 650  
watts out.

I have built a few big amplifiers in the past and you are welcome to ask me  
more questions if you want, Chris.

Stan w7ni@teleprot.com

From boatanchors@theporch.com Mon Mar 11 00:29:36 1996

From: Henry van Cleef <vancleef@bga.com>

Subject: Re: Need some tips on HV power supply design for my 3-1000 amp:

Message-ID: <199603110208.UAA20797@zoom.bga.com>

Boy, you've got me a bit off my turf here. I don't have any info on the 3-1000, and very limited on the 4-1000.

So far as getting 3KV out of the transformer, wire the two primaries in series. However you can't exceed the 700 ma. by much---that's controlled by  $I^2R$  losses and wire size. You'll need a bridge rectifier. 3KV at 700 ma. is 2100 watts input power, which is in the ball park for 50% efficiency and a 1000 watt plate.

On using a tetrode, I think you're looking for trouble if you triode-connect it. According to the data sheet I'm looking at, Eimac sez 1000 volts and 75 watts on the screen. Trying to run it either class B or class C as a triode, I suspect it has pretty low plate resistance and will need hellacious bias to cut it off. The real plus with tetrodes is that you can control power out by controlling screen voltage. The real minus is that you need to assure that you can't energize the screen supply without having the plate supply energized, or you'll burn up the screen in a hurry.

Putting filter chokes between the B- rail and the power supply return is a fine thing for keeping DC off the thing. But you'll need to float the supply return. If you are using choke input filter, you'll get 2700 volts out of the choke, less any rectifier drop (16 volts per with 872's),

--

\*\*\*\*\*  
Hank van Cleef vancleef@bga.com vancleef@tmn.com  
\*\*\*\*\*

From boatanchors@theporch.com Mon Mar 11 00:29:36 1996  
From: "Dick Dillman" <ddillman@igc.apc.org>  
Subject: No Globe Bites  
Message-ID: <70314.ddillman@igc.apc.org>

There have been no takers for the Clobe Chief Model 90 transmitter I posted a couple of weeks ago so the price is now \$75 plus shipping from San Francisco. Those wishing a re-send of the original detailed description, please drop me an email.

Dick Dillman  
WPE2VT N6VS ex-WA2BJK  
<ddillman@igc.apc.org>  
Collector of Heavy Metal:

Harleys, Willys and Radios Over 100lbs.

From boatanchors@theporch.com Mon Mar 11 17:41:34 1996  
From: paul Veltman <veltman@netcom.com>  
Subject: Old Eimac ASNs  
Message-ID: <Pine.3.89.9603102246.A24594-01000000@netcom7>

Hi gang,

I was cleaning out a box of stuff in my attic today, and I found my old collection of Eimac's Amateur Service Newsletters. This is a collection of 30 technical bulletins that was published by Eimac some 30 years ago. Bill, W6SAI was the main author, even though everyone in the engineering dept had a hand in it.

Some subjects covered are "Use of triode connected tetrodes as Grounded grid amplifiers", "A high powered linear amp using the new 3-1000Z", "The Pi-L Plate Circuit in KW amplifiers", and the 'stanley steamer' vapor cooled amp. This loose leaf book has approximately 100 pages, 2 sides.

The question is, does anyone out there want a copy? Let's have a show of hands, and if there is enough interest, I'll call Bill and Eimac and see about squaring with the copyrights and get some quotes on printing.

One other approach would be scanning in the book and putting the whole thing in the BA archive. Now there are schematics and photos, so I'd have to figure out how to scan in these and not run afoul of the OCR programs. Well, I'd take that up with the Webmaster at work, since he knows a lot more than I do and he has the scanner in his office.

I know that they printed thousands of these things, so maybe you all have a copy and I'm just whistling in the breeze.

I'm open to comments and suggestions.

73

Paul WA6OKQ

From boatanchors@theporch.com Mon Mar 11 00:29:36 1996  
From: "Gary H. Harmon, Jr." <gharmon@txdirect.net>  
Subject: Precision 660 Tube Tester  
Message-ID: <199603102115.PAA13671@legend.txdirect.net>

OK, so no one wants this item for \$13 plus shipping. How about \$6.50 plus

shipping (at least let me recover the cost of bubble wrap, peanuts, paper, and/or tape).

It seems to be complete but the meter gives every indication of being toasted. The innards look OK, i.e., nothing visually wrong, except there is some ceramic chipping off one of the controls. Plugged it in, no smoke, and the pilot light lit up, but no meter indication. No further checks made. Someone removed all the fiber covering from the wood and remounted two new hinges to the back. Other metal parts are rusty, and handle is broken but wired together. Roll chart looks good and has a supplemental tube data chart. It can be had for \$13 plus shipping, or trade for whatever.

73.....gary

=====  
<<<<<<<< T00 many projects, NOT enough time! >>>>>>>>>

Gary H. Harmon, Jr., K5JWK gharmon@txdirect.net  
6302 Robin Forest K5JWK@K3WGF.STX.USA.NOAM  
San Antonio, TX 78239 (210) 657-1549

From boatanchors@theporch.com Mon Mar 11 00:29:36 1996  
From: Arthur Moe <kb7ww@aracnet.com>  
Subject: Puyallup swap  
Message-ID: <199603110334.TAA23488@trapdoor.aracnet.com>

Just returned from Puyallup swap meet (near Seattle/Tacoma) and though I would pass on a short report. This is the largest swap in the North West I think and there were quite a few goodies around. Someone I'am sure will post a full list.

A friend of mine and I had a table and put things on it as we aquired them. Had to end up putting not for sale signs on every thing. Well now what came home with me and others.

Me:

Ranger 1, It is in fairly good shape, but has some paint chips around the radius of the front and the case needs repainted. \$100.00

Heath AT 1, First a small story. This friend of mine, that I went with (W7HR)

talked me out my first AT 1, 38 years ago. (one of the mistakes of my youth). Well he also wants this one and made me promise to sell it to him if I ever get rid of it. Well I think I'll give it to him in my will. It is a 9+ even has the manual with the large fold outs. Also got a spare set of tubes. Like I said its a 9+ except for one thing, the METER is missing. I am glad no one tried to put a wrong one in. Can any one help? The only mod that I can find is someone put on a grounded line cord. I would rather not say what I had to pay for it other than I would of paid that much for the manual.

D104 and G stand. Both with rivited tags They will clean up and be a 9 \$30.00

W7HR

Ranger 1 , Drake 2C with Q mult and D104. The ranger looks better than the one I got, call it verry good. This was a package and sold for \$290.00

Drake R4B T4B AC4 MS4 with all books. These are 9++ even have the orig boxes and covers. They look like the belong on the shelf at the old Portland Radio Supply.  
price \$400.00

W7KCK

SX 28 verry good \$125.00

A guy that had a table near us sold  
DX 100B, RANGER 1, AF 67 WITH AC, SX28, GLOBE CHIEF. GLOBE SCOUT WITH MOD

WELL I HAPE TO MEET SOME OF YOU AT DAYTON this will be my first trip.

73s & good hunting  
art

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AT THE END OF THE OREGON TRAIL

Arthur Moe  
A.R.S. KB7WW  
QTH: Oregon City, Or.

From boatanchors@theporch.com Mon Mar 11 17:41:34 1996  
From: Terry Dobler <kj7f@micron.net>  
Subject: Re: Puyallup swap  
Message-ID: <2.2.16.19960311103557.343f8ef8@micron.net>

At 09:41 PM 3/10/96 -0600, Arthur Moe wrote:

>Just returned from Puyallup swap meet (near Seattle/Tacoma) and thought  
>I would pass on a short report. This is the largest swap in the North West  
>I think and there were quite a few goodies around.

A group from Boise, Id drove the 500+ miles for this one and reported back that it was second only to Dayton in their minds. I couldn't go but they filled my order for a DX-100B which came with an Electro Voice 638 that cleaned up perfectly. (Brag intended <grin>) They reported seeing lots of BA's, most for reasonable prices but that they were going FAST! They got my BA in the first 5 minutes in the door and several Johnson rigs nearby they were interested in went before they could get over to them. Only price I rememeber was a National NC-300 with case and speaker that went for \$90 before my friend could get to it.

Terry KJ7F

From boatanchors@theporch.com Mon Mar 11 17:41:34 1996

From: Ed Kleckner <ekleck@kendaco.telebyte.net>

Subject: RCA WV-87A Master VoltOhmyst

Message-ID: <Pine.LNX.3.91.960311063920.28711A-100000@kendaco.telebyte.com>

I recently acquired a RCA WV-87A Master VoltOhmyst and with the replacement of the 12AU7 it seems to be working. My question has to do with the probe: There is a slide switch on the (fat) probe labeled "direct" and "DC". What are these settings and which does one use for DC measurements? At least the meter is large enough (6 1/2 ") that I can read it from a distance! If anyone knows about the probe switches I would appreciate hearing from them.

Thanks, Ed

~~~~~  
~ Ed Kleckner, N7YQR ~  
~ ekleck@kendaco.telebyte.net ~  
~~~~~

From boatanchors@theporch.com Mon Mar 11 17:41:34 1996

From: "Gable, Edward M" <emg@rfpo2.rfc.comm.harris.com>

Subject: RE: RCA WV-87A Master VoltOhmyst

Message-ID: <31445D6D@smtpgate.rfc.comm.harris.com>

<snip>

My question has to do with  
the probe: There is a slide switch on the (fat) probe labeled "direct"



and "DC". What are these settings and which does one use for DC measurements?

<snip>

Many VTVM probes work thusly: The DC position inserts a 1 Meg resistor in series with the 10 Meg Input Z of the VTVM, to give an 11 Meg/volt input resistance. Switching the probe to "direct" allows you to use the ohmeter function. Heath did this for years, so did Eico and others, I assume your RCA is similar.

Rgards, Ed K2MP @ Rochester <emg@rfc.comm.harris.com>

From boatanchors@theporch.com Mon Mar 11 17:41:34 1996

From: Scott\_Johnson-AZAX60@email.sps.mot.com

Subject: RE>Re- Need some tips on HV

Message-ID: <"Macintosh \*/PRMD=MOT/ADMD=MOT/C=US/"@MHS>

RE>Re: Need some tips on HV power supply\_ 3/11/96

My Zwei pfennig:

Run a full bridge, reduce the voltage with the variac, and dispense with the choke, it sounds too puny. I would not feel uncomfortable running the cap all the way up to its maximum voltage rating, as oil caps are designed for that.

73, Scott

From boatanchors@theporch.com Mon Mar 11 00:29:36 1996

From: x90galbrait1@wmich.edu

Subject: RME4350A dial assembly help needed!!

Message-ID: <Pine.PMDF.3.91.960310154747.678173303A-100000@wmich.edu>

Gang,

If anyone with experience with the tuning assembly on the RME 4350A could help me out, I'd sure appreciate it.

I dis-assembled the thing while doing a tear-down cleanup, and now can't get the thing to operate correctly. It worked fine before, and I'm following the diagram exactly (in the manual). The problem is I'm not sure if the small bearings are placed correctly (they tend to fall out of the race)...

Anyone wrestle with this b'for??

-Chris

From boatanchors@theporch.com Mon Mar 11 00:29:36 1996  
From: w0ogh@ix.netcom.com (Larry Godek)  
Subject: RTTY Journal  
Message-ID: <199603110346.TAA19453@ix2.ix.netcom.com>

Someone was looking for some of the older RTTY journal publications a couple of weeks ago. Anyone know who it was? I have some from 1973 and a Sept. 1982 issue to dispose of

Thanks

Larry W00GH@ix.netcom.com

From boatanchors@theporch.com Mon Mar 11 00:29:36 1996  
From: Radiomatt@aol.com  
Subject: SW receiver with only 3 tube types  
Message-ID: <960310202041\_443022565@emout08.mail.aol.com>

I posted a notice that Siemens had made a set in 1960 that operated on the Barlow\_Wadley principle, but used only 3 tube types. They are:

EF 93 (qua 3)  
ECH 81 (qua 5)  
E88CC (qua 8)  
this last tube is the commercial tube designator, the consumer version is ECC88.  
16 tubes in superb radio!

From boatanchors@theporch.com Mon Mar 11 00:29:36 1996  
From: flanders@GroupZ.net (Jerry Flanders)  
Subject: TMC HF Transmitter ShipAnchor Status Report  
Message-ID: <199603102158.PAA17348@uro.theporch.com>

A couple weeks ago I told everybody about the big '60's vintage TMC transmitter I had adopted, and asked for help in figuring out what the various pieces did and how to interconnect them.

I got several very informative replies and am well on my way to understanding how to fit the puzzle pieces together.

I also wrote to EIMAC (who made the 5CX3000A PA it uses) and also to TMC for manuals.

I have already received a reply from EIMAC (perhaps enclosing the SASE helped it return quickly), and now have a full 6 pages of technical poop on the tube.

Would you believe that tube is capable of actually delivering 5.5 KW output in AB1 with 6 KV on the plate. If that is not enough, in class C it delivers 8.5 KW at 6.8 KV. (Please don't remind me what my legal limits are - I am talking about the tube's limits, not mine.)

It's heater alone uses 4 times more power than I normally put on the ham bands. Like 360 watts. 9 V at 40 Amps. Thank goodness the transformers are all there, wired up and ready to go.

I have to come up with an interconnection scheme and a plate high voltage supply. I attended the Charlotte, NC hamfest yesterday hoping to find a big transformer and Variac. No luck. Maybe later this year. I have a 3 KV supply in the attic, but I think it is only good for 200-300 MA. Might be OK for testing until I get the BIG HV supply working, though.

Incidentally, I have discovered the sideband exciter portion can process 4 signals simultaneously. For instance, this thing originally could have placed a voice signal on the lower sideband, a FAX signal on that same sideband displaced down a few KHz, perhaps a TTY signal on the upper sideband, and yet another signal of any kind on an upper sideband displaced up a few KHz. Since the carrier injection is controllable, I could theoretically run AM on it as well (if the USB and LSB filters are well-matched).

If you would like to follow the progress of this thing, please e-mail me a reply to this, and I will be able to keep you updated in the future.

73's to all

Jerry Flanders      W4UKU      South Carolina      flanders@groupz.net

From boatanchors@theporch.com   Mon Mar 11 17:41:34 1996  
From: "Randy Zelick" <RANDY@sbii.sb2.pdx.edu>  
Subject: trade power tubes  
Message-ID: <2BC526F7EA5@sbii.sb2.pdx.edu>

Hi y'all,

I am looking for some type 8560 transmitting tubes. Will trade straight across for

4CX250B's,  
which are n.i.b., and which I need less.

Any takers?

Cheers,

=Randy=  
Randy Zelick  
Dept. Biology  
Portland State University  
P.O. Box 751  
Portland, OR 97207  
503-725-3086 (voice), 503-725-3864 (fax)

From boatanchors@theporch.com Mon Mar 11 00:29:36 1996  
From: Wayne Hoffman <wb6wlr@wdc.net>  
Subject: Trade SX-115 for NC-400  
Message-ID: <199603110443.UAA25144@n1.wdc.net>

I have a mint SX-115 which I would like to trade for an NC-400 in like condition. I know, the Halli is a better receiver, but I'm specializing in National RXs, so...

The '115 is for trade only - I am not interested in selling it (unless you can arrange for me to purchase an NC-400).

- 73 -

Wayne Hoffman  
ARS WB6WLR (Grid DM13at)  
Internet wb6wlr@wdc.net  
PacBell (714) 254-4182

From boatanchors@theporch.com Mon Mar 11 17:41:34 1996  
From: tdaley@smud.org (Tom Daley)  
Subject: want gonset gsb-200 amp & g-63 rx  
Message-ID: <199603112028.MAA17257@emcsun21.eo1>

hello ba people. im looking for a gonset gsb-200 hf amplifier and gonset g-63 hf receiver. any condition or parts rigs wanted. thanks

tdaley@smud.org

From boatanchors@theporch.com Mon Mar 11 17:41:34 1996  
From: doonan@cordmc.dnet.etn.com (DENNIS DOONAN X6916 (KG9DO))  
Subject: RE: Waukasha Hamfest  
Message-ID: <9603111129.AA10547@etn.com>

Been there.

There was a nice clean B&K mutual conductance tube tester I just missed for \$40. A HW-32 and HW-32A for \$40 each.

Thanks to Vlad, I got my Type G and H low frequency coils for my HRO.

Paul Washia, from MN was there with his tables full of Lindsay books. He always seems to be able to have them for a bit cheaper than anyone else--and no postage or tax! He also had very nice copies of the manual for the BC-348. I picked up the copy for my "Q" for \$9.

Speaking of the BC-348Q, it was advertised on this list right after several people said they are worth \$100. Maybe \$150 for a clean one. I felt guilty paying close to \$200 for this one but it is in super condition. I have never seen a BC-348 with a front panel as nice. The best part was, it went right into the radio room and not the shop. That was I have the nice 348 I wanted, and I have the shop time to "putter" with the other stuff. Sometimes it pays to pay a bit more. 73 all.

KG9DO

From boatanchors@theporch.com Mon Mar 11 17:41:34 1996  
From: Terry Neal <tmneal@netcom.com>  
Subject: WTB: Heath IT-11 Capacitor Tester  
Message-ID: <2.2.16.19960311111753.211f3dc4@10.0.2.2>

I am looking for a nice Heathkit IT-11 Capacitor Tester.

Thank you in advance

Terry aa6tn

tmneal@netcom.com  
Voice phone 714-546-9602

From boatanchors@theporch.com Mon Mar 11 00:29:36 1996  
From: Sandy Blaize <70401.134@compuserve.com>  
Subject: Xfmr. Data Needed  
Message-ID: <960311044738\_70401.134\_IHD111-1@CompuServe.COM>

Does anyone have any data on the Triad S-53X universal

output transformer? Impedances vs. secondary and primary taps?

73,

Sandy W5TVW